

Application No.: 10/003,040

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AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A method of schema replication in a directory server, comprising:
 - updating a schema at a replication supplier;
 - computing a change sequence number;
 - placing the change sequence number in an attribute on the replication supplier;
 - initiating a replication session to a replication consumer;
 - reading the change sequence number on the replication consumer;
 - sending changes to the schema to the replication consumer if the change sequence number on the replication consumer is less than the change sequence number on the replication supplier;
 - updating the schema on the replication consumer to obtain a schema update using the changes to the schema if the change sequence number on the replication consumer is less than the change sequence number on the replication supplier;
 - and
 - propagating the schema update from the replication supplier to each replication consumer,
 - wherein the schema is a set of rules to constrain what is stored in the directory server and the schema comprises a schema entry associated with an attribute and an object class in the schema, wherein the schema entry comprises a private field describing a human readable description of the attribute and the object class.
2. (Original) The method of claim 1, further comprising:
 - replacing contents of a schema entry on each replication consumer with contents of a schema entry on the replication supplier.
3. (Previously Presented) The method of claim 2, wherein contents are replaced using an update operation on the schema entry.
4. (Currently Amended) The method of claim 1, further comprising:

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- maintaining the schema update on a master supplier server.
5. (Currently Abandoned) The method of claim 4, further comprising:
copying the schema update to a plurality of servers after updating the master supplier.
 6. (Original) The method of claim 1, further comprising:
holding the change sequence number on the replication consumer in an attribute.
 7. (Original) The method of claim 1, further comprising:
querying the schema with standard Lightweight Directory Access Protocol operations.
 8. (Original) The method of claim 1, further comprising:
modifying the schema with standard Lightweight Directory Access Protocol operations.
 9. (Original) The method of claim 1, wherein the schema is updateable on an updateable master.
 10. (Currently Abandoned) A method of schema replication in a directory server, comprising:
updating a schema at a replication supplier;
computing a change sequence number;
placing the change sequence number in an attribute on the replication supplier;
initiating a replication session to a replication consumer;
reading the change sequence number on the replication consumer;
sending changes to the schema to the replication consumer if the change sequence number on the replication consumer is less than the change sequence number on the replication supplier;
updating the schema on the replication consumer to obtain a schema update using the changes to the schema if the change sequence number on the replication consumer is less than the change sequence number on the replication supplier;
propagating the schema update from the replication supplier to each replication consumer;
replacing contents of a schema entry on each replication consumer with contents of a corresponding schema entry on the replication supplier;
maintaining the schema update on a master supplier server;

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copying the schema update to a plurality of servers after updating the master supplier;
holding the change sequence number on the replication consumer in an attribute;
querying the schema with standard Lightweight Directory Access Protocol operations;
and

modifying the schema with standard Lightweight Directory Access Protocol operations,
wherein the schema is a set of rules to constrain what is stored in the directory server and
the schema comprises a schema entry associated with an attribute and an object
class in the schema, wherein the schema entry comprises a private field
describing a human readable description of the attribute and the object class.

11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)
16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)
20. (Cancelled)
21. (Currently Amended) A computer system for schema replication a directory server,
comprising:
a processor;
a memory; and
software instructions stored in the memory for enabling the computer system under
control of the processor, to perform:

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updating a schema at a replication supplier;
computing a change sequence number;
placing the change sequence number in an attribute on the replication supplier;
initiating a replication session to a replication consumer;
reading the change sequence number on the replication consumer;
sending changes to the schema to the replication consumer if the change sequence number on the replication consumer is less than the change sequence number on the replication supplier;
updating the schema on the replication consumer to obtain a schema update using the changes to the schema if the change sequence number on the replication consumer is less than the change sequence number on the replication supplier; and
propagating the schema update from the replication supplier to each replication consumer,
wherein the schema is a set of rules to constrain what is stored in the directory server and the schema comprises a schema entry associated with an attribute and an object class in the schema, wherein the schema entry comprises a private field describing a human readable description of the attribute and the object class.

22. (Currently Amended) The computer system of claim 21, wherein the software instructions further comprise instructions to perform:
replacing the contents of a schema entry on each replication consumer with contents of a corresponding schema entry on the replication supplier using an update operation.
23. (Currently Amended) The computer system of claim 21, wherein the software instructions further comprise instructions to perform:
maintaining the schema update on a master supplier server.
24. (Currently Amended) The computer system of claim 21, wherein the software instructions further comprise instructions to perform:
copying the schema update to a plurality of servers after updating the master supplier.

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25. (Original) The computer system of claim 21, wherein the software instructions further comprise instructions to perform:
holding the change sequence number on the replication consumer in the attribute.
26. (Original) The computer system of claim 21, wherein the software instructions further comprise instructions to perform:
querying the schema with standard Lightweight Directory Access Protocol operations.
27. (Original) The computer system of claim 21, wherein the software instructions further comprise instructions to perform:
modifying the schema with standard Lightweight Directory Access Protocol operations.
28. (Currently Amended) An apparatus for replicating a schema in a directory server, comprising:
means for updating a schema at a replication supplier;
means for computing a change sequence number;
means for placing the change sequence number in an attribute on the replication supplier;
means for initiating a replication session to a replication consumer;
means for reading the change sequence number on the replication consumer;
means for sending changes to the schema to the replication consumer if the change sequence number on the replication consumer is less than the change sequence number on the replication supplier;
means for updating the schema on the replication consumer to obtain a schema update
~~using the changes to the schema if the change sequence number on the replication consumer is less than the change sequence number on the replication supplier;~~
and
means for propagating the schema update from the replication supplier to each replication consumer,
wherein the schema is a set of rules to constrain what is stored in the directory server and the schema comprises a schema entry associated with an attribute and an object class in the schema, wherein the schema entry comprises a private field describing a human readable description of the attribute and the object class.

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29. (Cancelled)

30. (Cancelled)